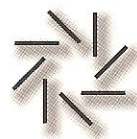
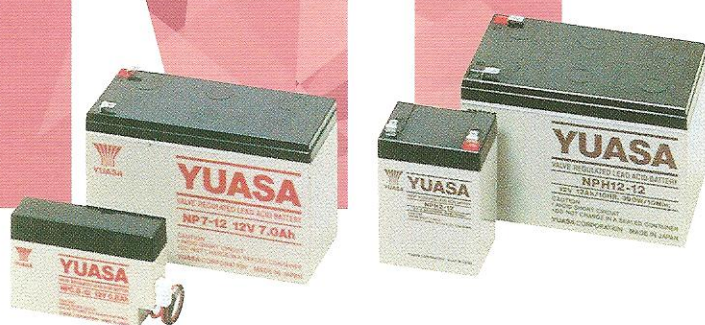
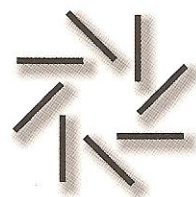




**“Yuasa” Brand Maintenance-Free
Valve Regulated Lead-Acid Batteries**

NP SERIES

(NP, NPH)



Yuasa NP,NPH SERIES

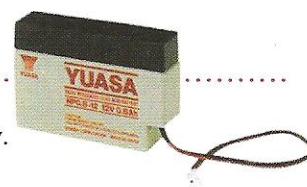
Utilising the latest advanced design of Oxygen Recombination technology, Yuasa have applied their 75 years experience in the lead acid battery field to produce a new generation of Valve Regulated Lead Acid batteries. Our NP/NPH series conform to UN2800 special Povision A67 in IATA Dangerous Goods Regulations and not subject to IATA Dangerous Goods Regulations.

General Features

- Sealed Construction (Non-Spillable Battery)
- Electrolyte Suspension System
- Gas Recombination
- Maintenance Free Operation
- Operation in any Orientation (except in an inverted position)
- Low Pressure Venting System
- Heavy Duty Grids
- Long Service Life
- Low Self Discharge - Long Shelf Life
- Wide Operating Temperature Range

NP SERIES (FOR GENERAL APPLICATION)

SPECIAL FEATURE: Many models are available in a wide range of sizes. This ensures that all general applications are covered by various ranges of capacity.



Specifications

NP Model	Volts	Rated Capacity (20 hr rate) (Ah) ^{*1}	Approx. Dimensions			Approx. Weight kg	Layout	Terminals
			Length mm	Width mm	Overall height incl. terminals mm			
NP1-6	6	1.0	51	42.5	54.5	0.25	5	A
NP1.2-6		1.2	97	25	54.5	0.30	1	A
NP2.8-6		2.8	134	34	64	0.57	1	A
NP3-6		3.0	134	34	64	0.65	1	A
NP4-6		4.0	70	47	105.5	0.85	5	A
NP7-6		7.0	151	34	97.5	1.35	1	A
NP10-6		10.0	151	50	97.5	2.00	1	A
NP12-6		12.0	151	50	97.5	2.00	1	D
NP0.8-12	12	0.8	96	25	61.5	0.35	9	I
NP1.2-12		1.2	97	48	54.5	0.57	3	A
NP2-12		2.0	150	20	89	0.70	10	B
NP2.1-12		2.1	178	34	64	0.74	1	A
NP2.3-12		2.3	178	34	64	0.94	1	A
NP2.6-12		2.6	134	67	64	1.12	3	A
NP4-12		4.0	90	70	106	1.70	1	A
NP7-12		7.0	151	65	97.5	2.65	4	A
NP12-12		12.0	151	98	97.5	4.00	4	D
NP17-12		17.0	181	76	167	5.90	2	E/J1
NP18-12B		17.2	181	76	167	6.20	2	E
NP24-12B		24.0	166	175	125	8.65	2	E/J1
NP26-12		26.0	166	175	125	9.0	2	E/J1
NP38-12		38.0	197	165	170	13.80	2	F/J1
NP65-12		65.0	350	166	174	22.80	2	G/J2

*1 Final Voltage: 1.75V/cell, Temperature: 25°C(77°F)

NPH SERIES (FOR HIGH RATE DISCHARGE APPLICATION)

SPECIAL FEATURE: NPH series are specially designed to suit high rate discharge requirements. NPH series give 50% more wattage for a short duration of discharge compared with conventional NP models.



Specifications

NPH Model	Volts	Rated Capacity (10 hr rate) (Ah) ^{*2}	Approx. Dimensions						Weight	Layout	Terminals
			Length		Width		Overall height incl. terminals				
			mm	(in.)	mm	(in.)	mm	(in.)			
NPH2-12	12	2.0	68	(2.68)	51	(2.01)	88	(3.46)	0.84	2	A
NPH3.2-12		3.2	134	(5.28)	67	(2.64)	64	(2.52)	1.40	3	A
NPH5-12		5.0	90	(3.54)	70	(2.76)	106	(4.17)	2.00	1	D
NPH12-12		12.0	151	(5.94)	98	(3.86)	97.5	(3.84)	4.20	4	D
NPH16-12		16.0	181	(7.13)	76	(2.99)	167	(6.57)	6.20	2	F

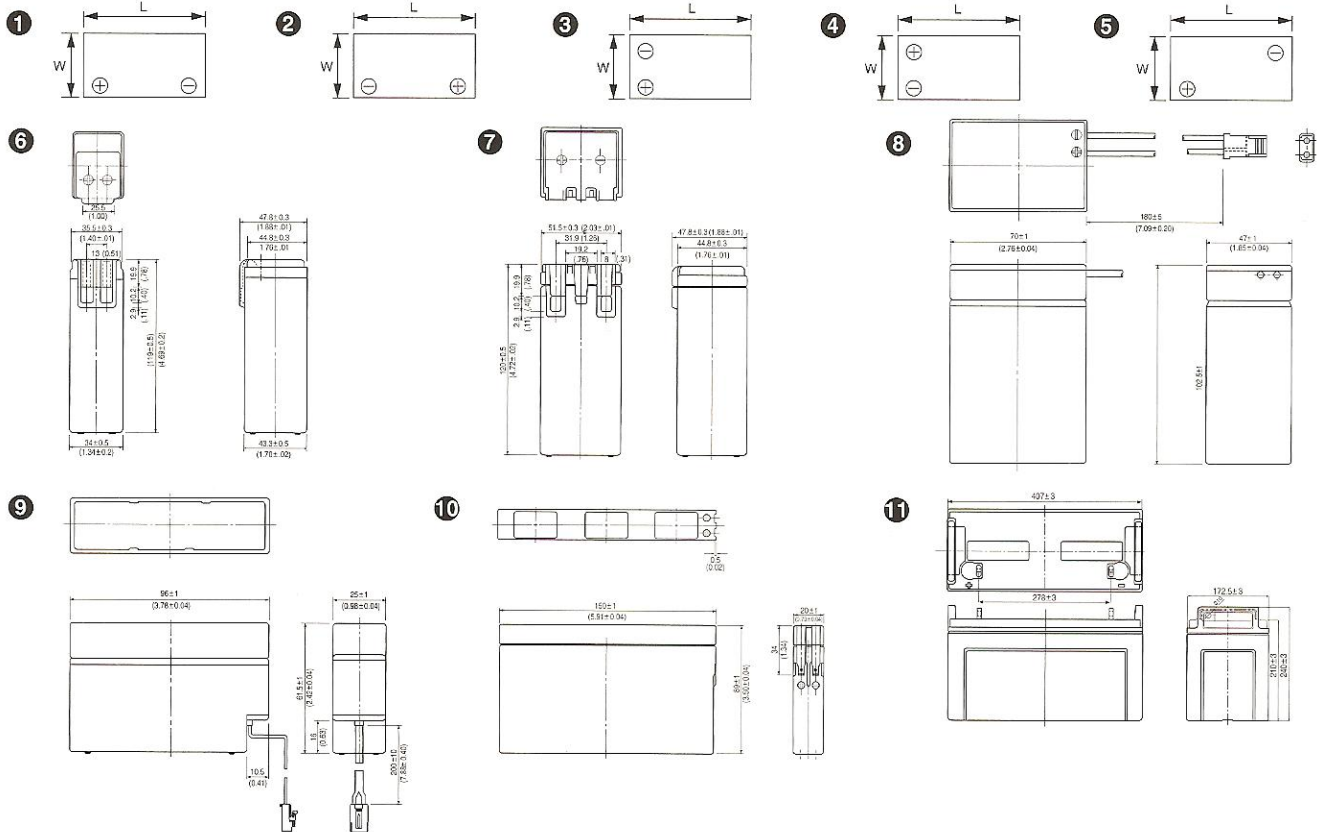
*2 Final Voltage: 1.75V/cell, Temperature: 25°C(77°F)

NP,NPH SERIES

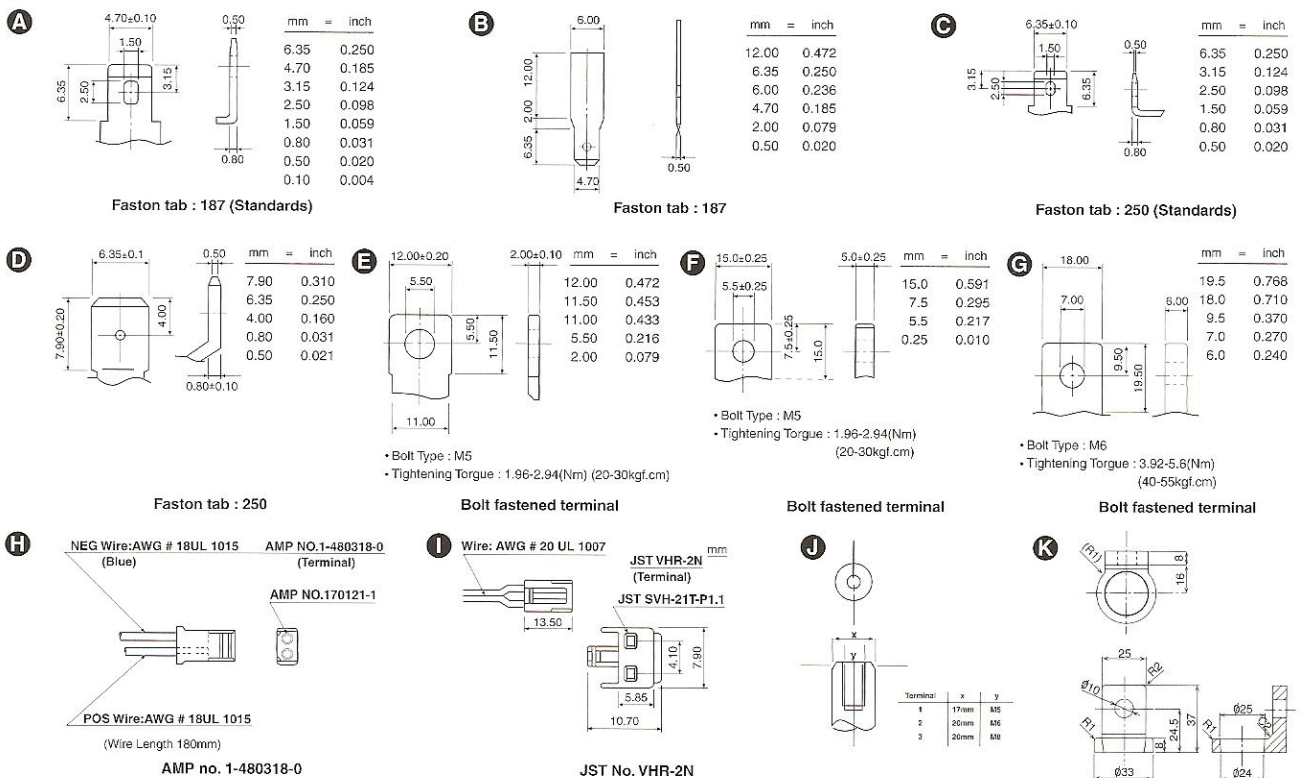
*Following Layout and Terminal specifications are applicable for all specification tables of NP/NPH series batteries.

• Layout

Sizes in mm



• Terminals

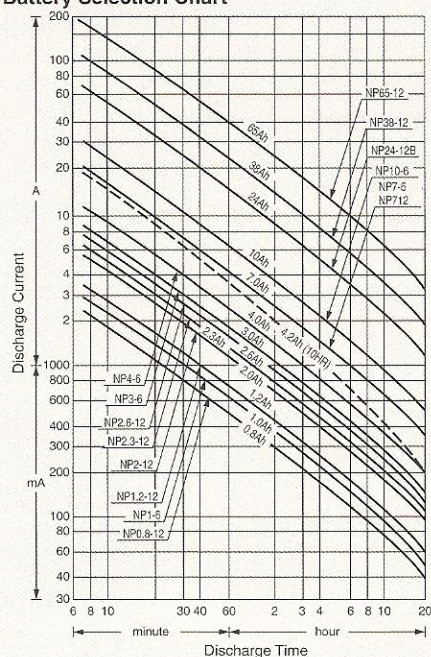


NP SERIES

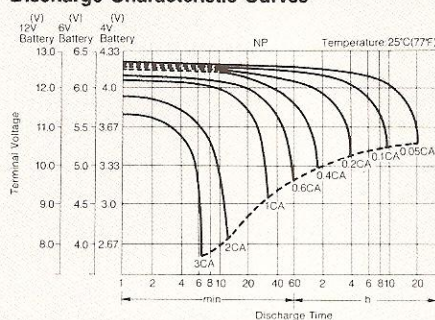
(FOR GENERAL APPLICATION)

● Characteristics

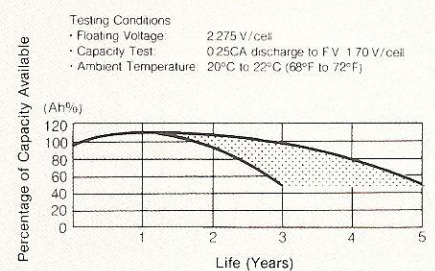
Battery Selection Chart



Discharge Characteristic Curves



Float Service Life (Example)

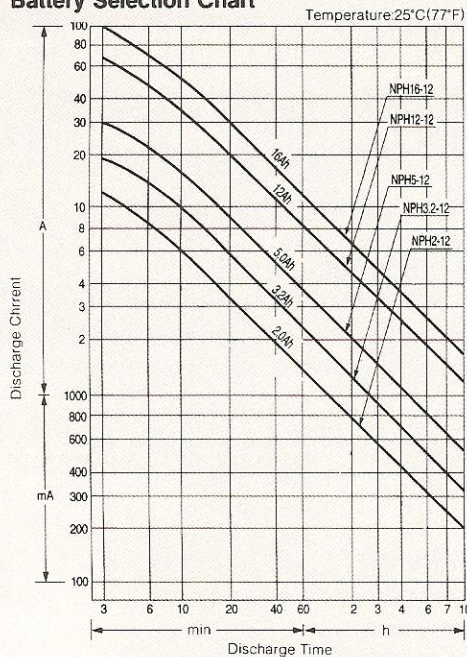


NPH SERIES

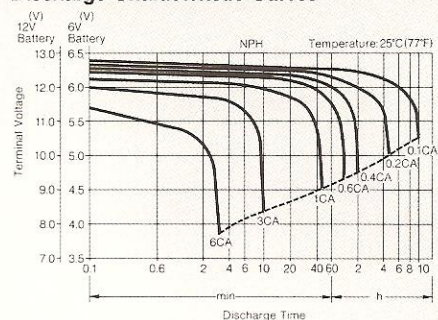
(FOR HIGH RATE DISCHARGE APPLICATION)

● Characteristics

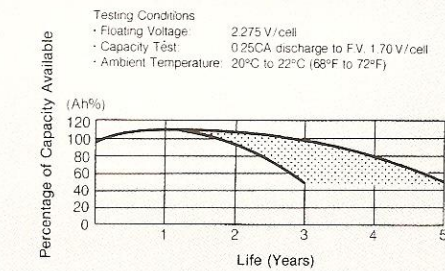
Battery Selection Chart



Discharge Characteristic Curves



Float Service Life (Example)



NP, NPH Series

● Constant voltage charging method

Apprication	Stand-by Use	Cycle Use
Charging method	Constant Voltage Charging	
Charging voltage(V/Cell) at 25°C	2.275	2.4
Temperature compensation(mV/°C/cell)	-3	-4
First maximum charging current(CA)	No limit	0.25
Temperature(°C)	-15 ~ +40	

● Specifications subject to change without prior notice

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